Title (en)

Torch flow regulation using nozzle features.

Title (de)

Brennerflussregulierung durch Düsenfunktionen

Title (fr)

Régulation de l'écoulement d'une torche au moyen des propriétés de la buse

Publication

EP 2408274 A3 20150603 (EN)

Application

EP 11174113 A 20110715

Priority

• US 98085810 A 20101229
• US 36520210 P 20100716

Abstract (en)

[origin: EP2408274A2] A nozzle for a plasma arc torch includes a body having a first end and a second end. The nozzle also includes a plasma exit orifice located at the first end of the body. A flange is located at the second end of the body. The flange is adapted to mate with a corresponding consumable. The flange is configured to selectively block at least one gas passage in the corresponding consumable to establish a gas flow relative to the nozzle body.

IPC 8 full level

H05H 1/34 (2006.01)

CPC (source: EP US)

H05H 1/34 (2013.01 - EP US); **H05H 1/3457** (2021.05 - EP); **H05H 1/3468** (2021.05 - EP); H05H 1/3457 (2021.05 - US); H05H 1/3468 (2021.05 - US)

Citation (search report)

• [X] US 2007045241 A1 20070301 - SCHNEIDER JOSEPH C [US], et al
• [X] US 6084199 A 20000704 - LINDSAY JON [US], et al
• [X] US 4649257 A 19870310 - YAKOVLEVITCH DANIEL [US], et al
• [A] US 4716269 A 19871229 - CARKHUFF DONALD W [US]

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FR3000866A1; RU2693233C2; EP2642832A1; WO2013139484A1; US9736916B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 202011103257 U1 20110830; CN 102407399 A 20120411; CN 102407399 B 20160210; CN 202411644 U 20120905; CZ 24192 U1 20120820; EP 2408274 A2 20120118; EP 2408274 A3 20150603; EP 2408274 B1 20200701; US 2012012560 A1 20120119; US 8884179 B2 20141111

DOCDB simple family (application)

DE 202011103257 U 20110715; CN 201110264994 A 20110715; CN 201120370574 U 20110715; CZ 201124611 U 20110718; EP 11174113 A 20110715; US 98085810 A 20101229